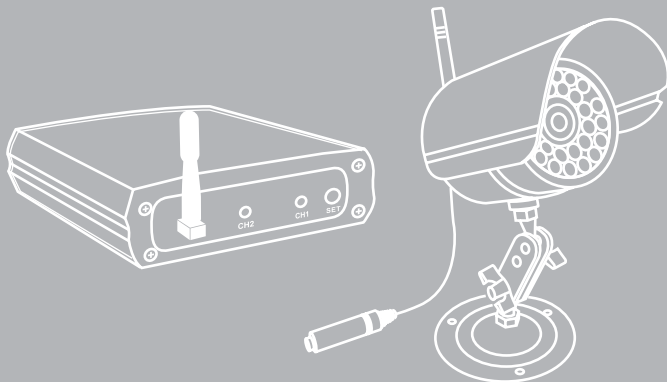


SecurityMan®



ClearCam II

**Wi-Fi Interference Free Wireless Outdoor/Indoor
Color Camera Kit with Night Vision/Audio
User Guide**

Copyright Notice

This manual is furnished under license and may be used or copied only in accordance with the terms of such license. Except as permitted by such license, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or any means, electronic, mechanical, recording, or otherwise, including translation to another language or format, without the prior written permission of SecurityMan.

The content of this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by SecurityMan. SecurityMan assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

All other product names, trademarks and registered trademarks in this document are the properties of their respective holders.

FCC Information

Notes on FCC's "Consistent Statement of Information" This product meet the requirements specified in Part 15 of FCC Regulation. Operation rests with the following two conditions:

- (1) The equipment should not cause any harmful interference.
- (2) The equipment must receive and process any interference, including any possible interference caused by operation mistakes.

After testing the product, we confirm that the camera complies with the provision for class C digital equipment in the 15th part in FCC regulations; and the receiver complies with the limitations for class B digital equipment in Part 15 of FCC regulation. The product generates, applies and emits radio waves. It might cause harmful interferences to wireless communication if not be installed and used following the description of the manual.

The product may cause interference in residential area, and the customer should take remedies to eliminate the interference on their own costs.

If the product causes any harmful interference to wireless equipment or disturbs the receiving of TV signals (it can be identified by turning on and off the product), you can solve the trouble by following methods:

- Readjust the product or put it in another place.
- Extend the distance between the equipment interfered and the product.
- Refer to dealers or experienced radio electrician for help.

Warranty

SecurityMan warrants that this product will be free from defects in materials and workmanship for period of time specified on the product packaging. This limited warranty shall commence from the date of purchase. SecurityMan Products warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, SecurityMan will repair or replace the product . This warranty shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use.

Limitation of Liability

The liability of SecurityMan arising from this warranty and sale shall be limited to a refund of the purchase price. In no event shall SecurityMan be liable for costs of procurement of substitute products or services, or for any lost profits, or for any consequential, incidental, direct or indirect damages, however caused and on any theory of liability, arising from this warranty and sale. These limitations shall apply not with standing any failure of essential purpose of any limited remedy.

SecurityMan

4601 E. Airport Drive, Ontario, CA 91761, USA

Tel: 888-977-3777 or 909-230-6668

Fax: 909-230-6889

Email: info@securitymaninc.com

Website: <http://www.securitymaninc.com>

Copyright 2007 by SecurityMan v1.0

Notice:

0.9GHz wireless camera works at ISM band. It may cause interferences with other wireless equipment that operates at the same band. Please turn off one of the equipment to eliminate the interference.

Product Assurance

0.9GHz wireless camera will emit electromagnetic wave, just like other wireless products. But the output power of the products is lesser than other wireless products such as mobile phones. The 0.9GHz wireless camera meets wireless frequency security standards and recommend indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Operating Restrictions

DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for these purposes.

DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. This product should be placed at least 1 feet away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance.

DO NOT use this product for any illegal activities. SecurityMan shall not be responsible for any consequences of illegal conducts by users.

Conditions

Please read the following messages to make sure whether your working environment is suitable.

- Ensure there is enough space around the receiver for ventilation.
- The temperature should be kept between -10°C and 50°C (-14°F – 122°F). The relative humidity should remain from 20% to 80%.
- Avoid putting the product in places where occur might change rapidly in temperature or humidity
- Keep it dry, dustless and avoid exposure in it directly in sunlight
- Keep product away from heat sources such as electric heater
- Do not use the camera near aggressive chemicals
- Do not place product near any magnetic objects

Maintenance

It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use
Do not disassemble the product.

Do not shake or stricken the product.

Do not use this camera near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool; and the like.

Please obey the local government's environment protection policy

Warning:

- In order to avoid inflammation or electric shock, this machine should be kept away from exposure to rain or moist, and it shall not be put in or near bathrooms, washing pools, washhouses, moist basements, or swimming pools.
- In use of sockets set on walls or extension wires, attention should be paid not to exceed their load capabilities to avoid inflammation or electric shock;
- Casings are not allowed to open, otherwise the internal precision parts may get damaged, or personal injury caused.
- Switch off the power supply in thunder and lightning or when not in use for long periods of time.
- Do not attempt to service the product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Important Information

The user's manual provides important information for customers to use their products properly, and avoid possible injuries and damages.



The condition of being susceptible to harm or injury



A careful attention to the probable effects of an act, in order that failure or harm may be avoided



A notification or communication of a fact, claim, demand, or proceeding



Information about a particular subject



Something that should not be done



DO NOT



DO NOT put the package plastic bags in reach of children or babies.

*It might cause asphyxia if children or babies putting the bags into their mouths.

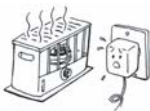


DO NOT



DO NOT plug the AC adapter into the outlet in improper situation.

*Plugging AC adapter with wet hand might cause electric shock. Plugging AC adapter unsteadily might cause fire or electric shock.



DO NOT



DO NOT cover the AC adapter when it is connected to power socket, place the adapter near heaters, and put it on the floor that is equipped with a heater.

*The above-mentioned operation might cause fire or incidents.



DO NOT



DO NOT use it on airplanes. Please abide by the airways provision.

*It might influence the communication aboard and the flying apparatus if departing from the airways regulation. This will result in accident, possible death and severe physical hurt.



DO NOT



DO NOT put the camera in the wet place where water might splash or where rain-water and mist might erode.

*This place might cause fire, shock, short circuit, etc.

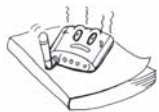


DO NOT



DO NOT disassemble or repair the camera, the receiver and other relevant peripheral equipment.

*Improper disassembly might cause damages to the product or the peripheral equipment.



DO NOT



DO NOT use the receiver on the surface of thermo labile material.

*Please embed thermal insulating material when using on the surface of the thermo labile material.



DO NOT



DO NOT place or use the AC adapter on temperature sensitive materials.

*The above practice might cause the plastic distortion, fading or sticking on the surface.



DO NOT



DO NOT touch, shake or hold the aerial.

*Touching, shaking or holding the aerial might influence the receiving of electromagnetic wave, and thereby influence the receiving effect.



DO NOT



DO NOT use several cameras with neighboring frequency closely at the same time

*The electromagnetic wave signal of the neighboring frequency might cause slight interferences and influence the receiving effect.



DO NOT



DO NOT let several cameras with same frequency work at the same time.

*The overlap of the electromagnetic wave signal of the same frequency might cause severe interferences and unable to receive signals.



Please adjust the brightness on TV or on monitor to achieve optimum efficiency.

*There are slight differences of brightness among cameras which can be adjusted



DO NOT



DO NOT use the camera in complex environment. The obstruction of stumbling block will affect the electromagnetic wave and influence the receiving range.

*Wall, tree and other stumbling block might absorb, reflect the electromagnetic wave and influence the receiving range.



DO NOT



DO NOT use the camera in the places that are covered by metal.

*Places surrounded by metal, such as elevator and cabinet, might shield the electromagnetic wave resulting in signal lost.

Contents

Introduction	12
Package Contents	12
Technical Support	12
Product Basics	13
Camera	13
Receiver	13
Dip-Switch(Camera)	14
Receiver manual & loop switch	15
Installation Diagram	16
Installation	
A) Setting up the Antennas	16
B) Setting up the Camera	17
C) Setting up the Receiver for manual or loop mode	17
D) Setting up the Receiver with TV/Monitor/VCR/DVR	18
Specification	19
Troubleshooting	20

Introduction

Thank you for purchasing ClearCam II. ClearCam II is a convenient wireless security camera kit for any outdoor/indoor surveillance of a home or a business. It consists of a wireless camera, a receiver, and needed accessories.

Note: Please read the manual entirely before using the product.

Package contents:

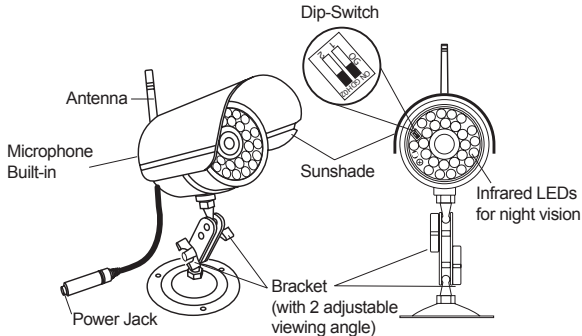
- 1 x Wireless outdoor/indoor color camera (SM-8123T) with bracket
- 1 x 2-CH 0.9GHz wireless receiver (SM-7034) and antenna
- 1 x 12V power AC adapter (for camera)
- 1 x 8V power AC adapter (for receiver)
- 1 x AV cable
- 1 x Accessories

Technical Support

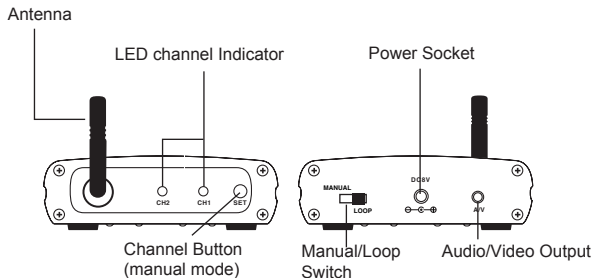
In U.S.A, please call 1-909-230-6668 or in other areas,
E-mail us at: techsupport@securitymaninc.com

Product Basics

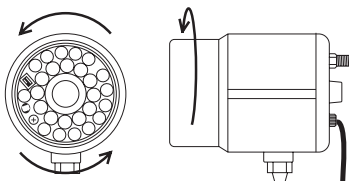
Camera



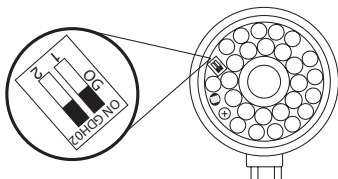
Receiver







Dip-Switch (Camera)



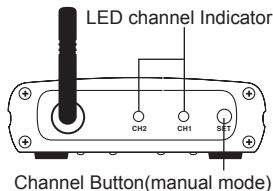
To adjust the dip-switch channel for the camera, unscrew to remove the front portion of the camera.



Use a pointed object to set the dip-switch to desired channel

1	2	Channel	
ON	ON	1	 CH1 = 906MHz
OFF	ON	2	 CH2 = 924MHz
ON	OFF	3	 N/A
OFF	OFF	4	 N/A

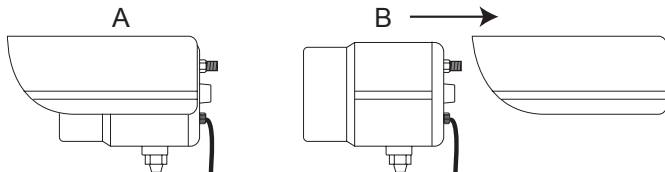
Receiver manual & loop switch



- A) In manual mode use the channel button "SET" to toggle between channel #1 & channel #2.
- B) In loop mode the receiver will auto dwell by switching between channel #1 & channel #2. The auto dwell time is fixed and preset to 5 second intervals.

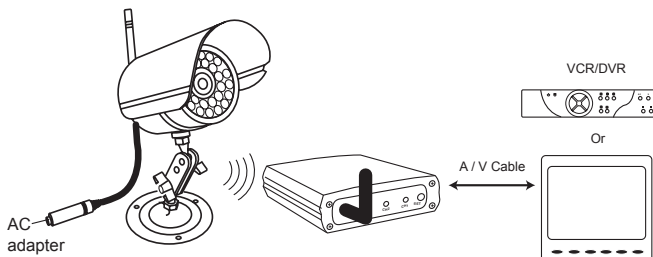


Sunshade



For outdoor use, you should attach the sunshade to reduce sun reflection (A). For indoor use, please detach the sunshade from the camera to prevent dark images. (B)

Installation Diagram

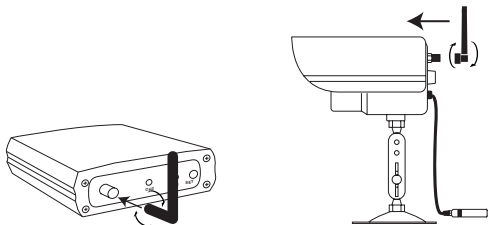


WARNING: When using power adapter, make sure the voltage indications on the adapters are compatible to the devices to avoid potential damages for incorrect usage of power.

Installation

A) Setting up the Antennas

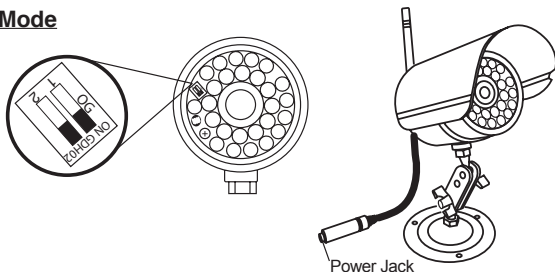
Connect the antennas to the receiver and camera



B) Setting up the Camera

- 1) Set the camera to desired Dip-Switch Channel Frequency
- 2) Place the camera in a desired location.
- 3) Plug the power adapter jack into the power jack
- 4) Plug the power adapter to any AC/DC outlet
- 5) Jot down the Dip-Switch Channel of each camera. (The receiver will receive signal from the corresponding camera and display one at the time. For example, Channel 1 light on the receiver will display the image from Camera 1 only).

Default Mode

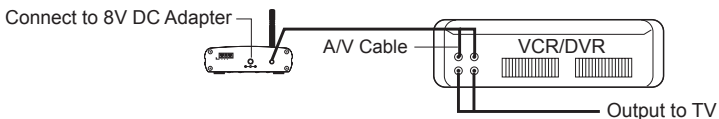
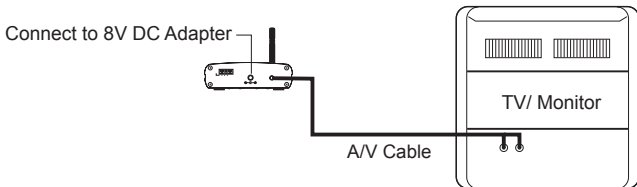


C) Setting up the Receiver for manual or loop mode

- 1) Basically, the receiver is already set to match the camera by default(CH1 & Manual). To setup "Loop" mode the A→B switch to "Loop" located at the rear of the receiver.
Note: only use "Loop" mode if two cameras are in used.

D) Setting up the Receiver with TV/Monitor/VCR/DVR

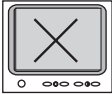

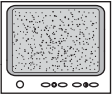



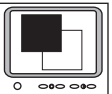

- 1) Connect one end of the A/V cable to the A/V out jacks of the Receiver. Connect the other end to your TV/Monitor A/V jacks.
- 2) Plug the Receiver's Power Supply (8V DC Adapter) into any wall outlet and plug its jack into the Receiver.
- 3) Position the Receiver in a convenient location



Specification

	Item	Value
CAMERA(SM-8123T)	Imaging Senor	CMOS
	Total Pixels	510 x 492(NTSC)
	Minimum illumination	OLux
	Transmission Frequency	ISM 906MHz & 924MHz (CH2, Manual/Loop)
	Transmission Power	10mW/CE: 2mW/FCC
	Modulation Type	FM
	Bandwidth	18MHz
	Power Supply	±12VDC
	Consumption Current	90mA(IR OFF) & 260mA(IR ON)
	Unobstructed Effective Range	100m
	Night Vision Range	15m(45ft)
	Dimension(WxDxH)	61x96x136(mm)(Including Bracket)
	Weight	296g
RECEIVER(SM-7034)	Receiving Frequency	ISM 900MHz ~ 930MHz
	Intermediate Frequency	480MHz
	Demodulation Type	FM
	Antenna	50ohmSMA
	Receiving Sensitivity	≤-85dBm
	Video Output Level	1.1V+/-0.2V _{pp} @75 ohm,S/N>38dB
	Audio Output Level	3.0V+/-1V _{pp} @600 ohm
	Power Supply	+8VDC
	Consumption Current	165mA
	Dimension(WxDxH)	78x92x22(mm)(Excluding Antenna)
	Weight	174g
	Operating Temperature	-10°C~50°C/±14°F~+122°F
	Operating Humidity	85%RH

Troubleshooting

Abnormal Phenomena		Possible Reasons/Solutions
 <p>No image</p>	 <p>No sound</p>	<p>*Check the camera / receiver is connected to the power supplies, and powered on.</p>
 <p>Snowflakes on image</p>	 <p>Noisy</p>	<p>*Check the channel of the receiver to correspond with camera; *Check the distance and blocks.</p>
 <p>Ghost image</p>	 <p>Normal sound</p>	<p>*Interfered by other sources; *Check the distance and blocks.</p>
 <p>No color</p>	 <p>Normal sound</p>	<p>*Mismatching system of PAL TV and NTSC cameras or vice versa.</p>

www.securitymaninc.com